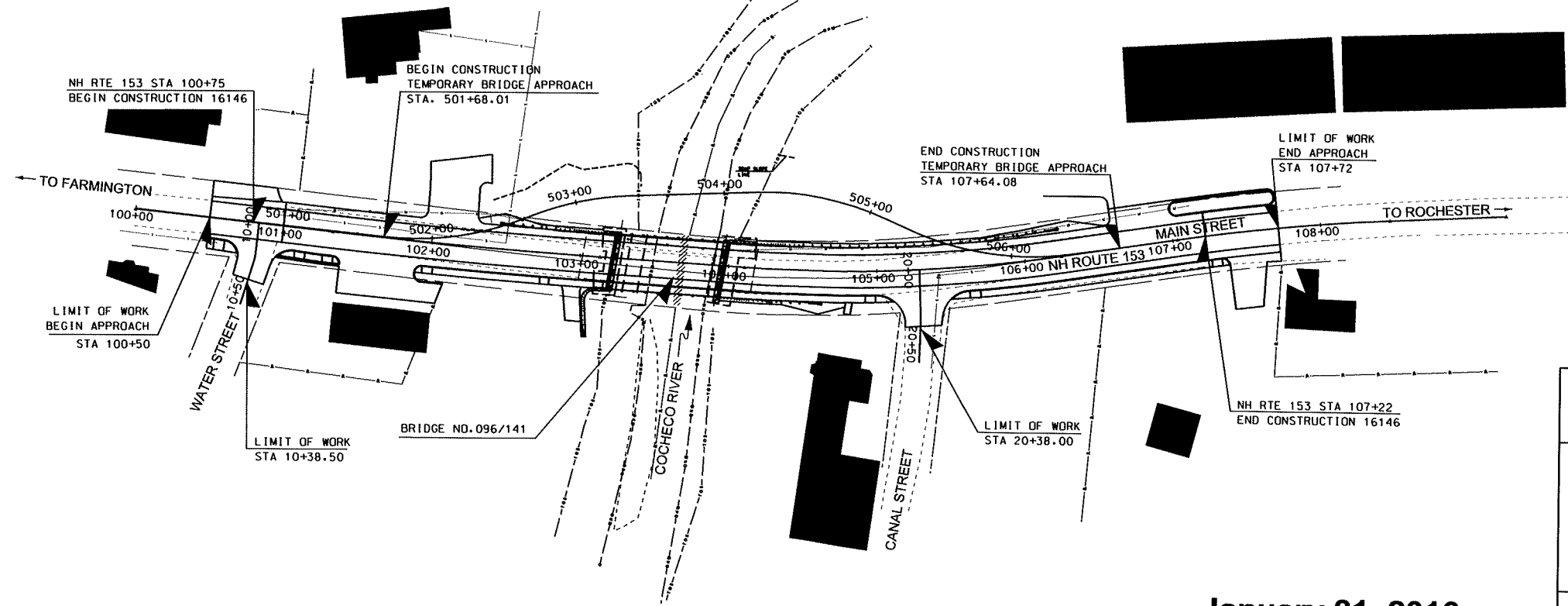
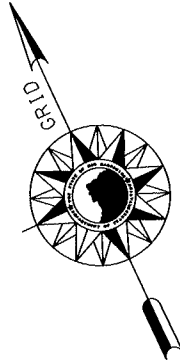
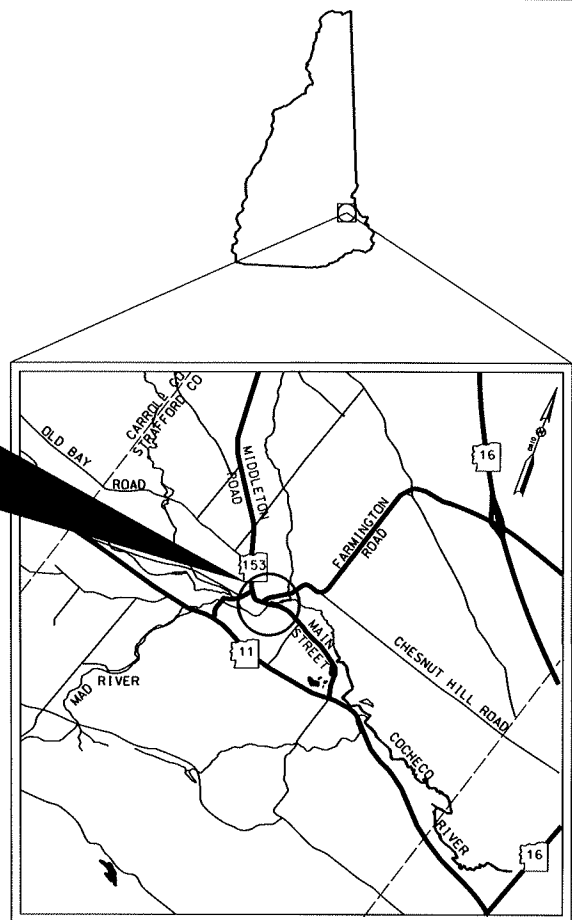


INDEX OF SHEETS	
1	FRONT SHEET
2-3	STANDARD SYMBOLS
4	EROSION CONTROL STRATEGIES AND STABILIZATION MATRIX
5	WETLAND IMPACT PLAN
6-7	EROSION CONTROL PLANS

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION

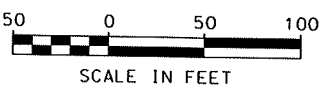
WETLAND PLANS
NH ROUTE 153 (MAIN STREET) OVER COCHECO RIVER
BRIDGE REPLACEMENT
X-A001(152)
N.H. PROJECT NO. 16146

16146



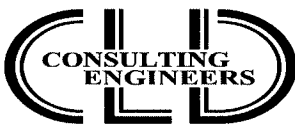
TOWN OF FARMINGTON
COUNTY OF STRAFFORD
SCALE : 1" = 50'
FOR CONSTRUCTION AND ALIGNMENT DETAILS -
SEE CONSTRUCTION PLANS

January 21, 2016



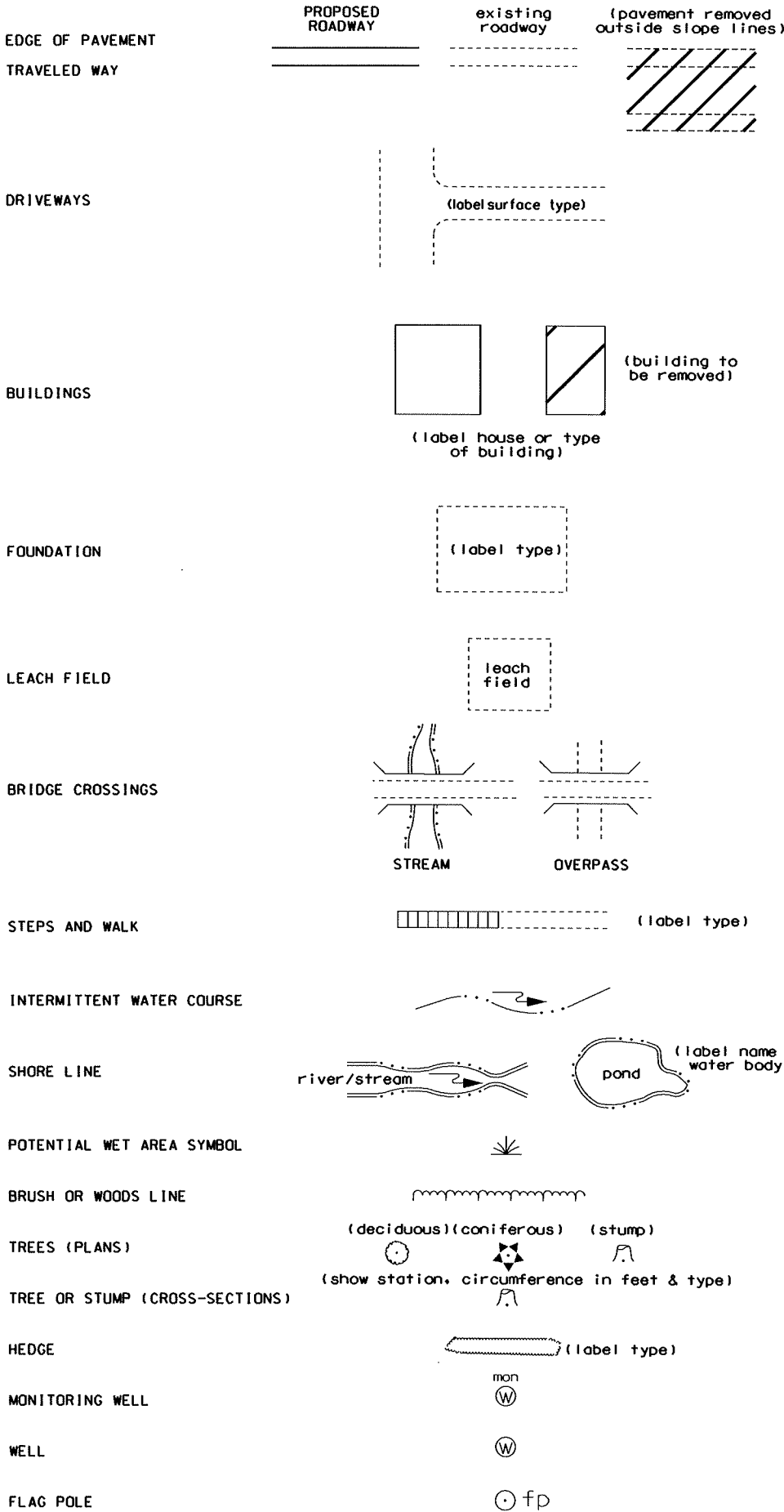
NH DOT THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION			
RECOMMENDED FOR APPROVAL:			
_____ DIRECTOR OF PROJECT DEVELOPMENT		_____ DATE	
_____ MUNICIPAL HIGHWAYS ENGINEER BUREAU OF PLANNING AND COMMUNITY ASSISTANCE		_____ DATE	
APPROVED:		_____ ASSISTANT COMMISSIONER AND CHIEF ENGINEER	
_____ DIVISION ADMINISTRATOR		_____ DATE	
U. S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION			
APPROVED:			
_____ DATE			
FEDERAL PROJECT NO. X-A001(152)	STATE PROJECT NO. 16146	SHEET NO. 1	TOTAL SHEETS 7

DRAWN BY: MGS
CHECKED BY: NJF
DATE: 1/21/2016
DATE: 1/21/2016



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Maine • New Hampshire • Vermont

GENERAL



ORIGINAL GROUND (TYPICALS)

ROCK OUTCROP

ROCK LINE (TYPICALS & SECTIONS ONLY)

GUARDRAIL (label type)

JERSEY BARRIER

CURB (LABEL TYPE)

STONE WALL

RETAINING WALL (LABEL TYPE)

FENCE (LABEL TYPE)

SIGNS

GAS PUMP

FUEL TANK (ABOVE GROUND)

STORAGE TANK FILLER CAP

SEPTIC TANK

GRAVE

MAILBOX

VENT PIPE

SATELLITE DISH ANTENNA

PHONE

GROUND LIGHT/LAMP POST

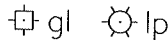
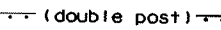
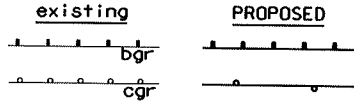
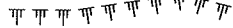
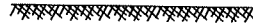
BORING LOCATION

TEST PIT

INTERSTATE NUMBERED HIGHWAY

UNITED STATES NUMBERED HIGHWAY

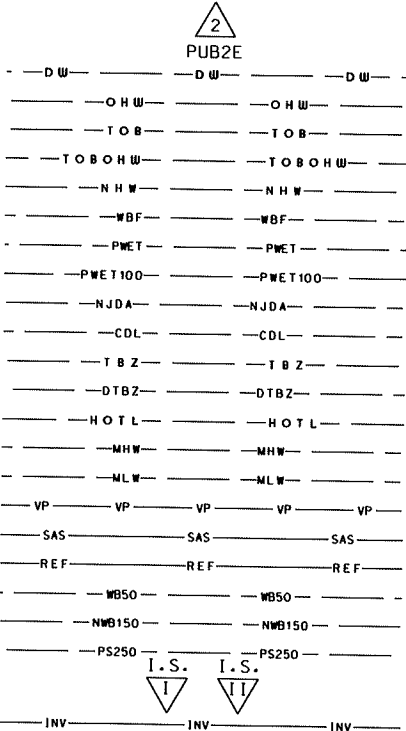
STATE NUMBERED HIGHWAY



SHORELAND - WETLAND

WETLAND DESIGNATION AND TYPE

DELINEATED WETLAND
ORDINARY HIGH WATER
TOP OF BANK
TOP OF BANK & ORDINARY HIGH WATER
NORMAL HIGH WATER
WIDTH AT BANK FULL
PRIME WETLAND
PRIME WETLAND 100' BUFFER
NON-JURISDICTIONAL DRAINAGE AREA
COWARDIN DISTINCTION LINE
TIDAL BUFFER ZONE
DEVELOPED TIDAL BUFFER ZONE
HIGHEST OBSERVABLE TIDE LINE
MEAN HIGH WATER
MEAN LOW WATER
VERNAL POOL
SPECIAL AQUATIC SITE
REFERENCE LINE
WATER FRONT BUFFER
NATURAL WOODLAND BUFFER
PROTECTED SHORELAND
INVASIVE SPECIES LABEL
INVASIVE SPECIES



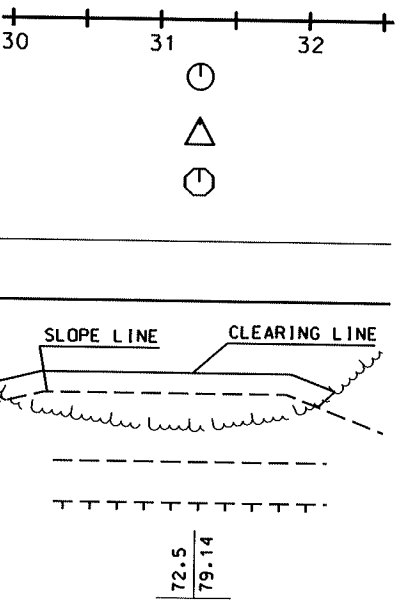
FLOODPLAIN / FLOODWAY

500 YEAR FLOODPLAIN BOUNDARY
100 YEAR FLOODPLAIN BOUNDARY
FLOODWAY



ENGINEERING

CONSTRUCTION BASELINE
PC, PT, POT (ON CONST BASELINE)
PI (IN CONSTRUCTION BASELINES)
INTERSECTION OR EQUATION OF TWO LINES
ORIGINAL GROUND LINE (PROFILES AND CROSS-SECTIONS)
PROFILE GRADE LINE (PROFILES AND CROSS-SECTIONS)



SHEET 1 OF 2

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

STANDARD SYMBOLS

REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
11-21-2014	16146WSYMCLD	16146	2	7

DRAINAGE

MANHOLE		(existing)		(PROPOSED)
CATCH BASIN				
DROP INLET				
DRAINAGE PIPE (existing)				
DRAINAGE PIPE (PROPOSED)				
UNDERDRAIN (existing) W/ FLUSHING BASIN				
UNDERDRAIN (PROPOSED) W/ FLUSHING BASIN				
HEADER (existing & PROPOSED)				
END SECTION (existing & PROPOSED)				
OPEN DITCH (PROPOSED)				
EROSION CONTROL/ STONE SLOPE PROTECTION				

BOUNDARIES / RIGHT-OF-WAY

RIGHT-OF-WAY LINE		(label type)
RR RIGHT-OF-WAY LINE		
PROPERTY LINE		
PROPERTY LINE (COMMON OWNER)		
TOWN LINE		
COUNTY LINE		
STATE LINE		
NATIONAL FOREST		
CONSERVATION LAND		
BENCH MARK / SURVEY DISK		
BOUND		(PROPOSED)
STATE LINE/ TOWN LINE MONUMENT		
NHDOT PROJECT MARKER		
IRON PIPE OR PIN		
DRILL HOLE IN ROCK		
TAX MAP AND LOT NUMBER		
PROPERTY PARCEL NUMBER		
HISTORIC PROPERTY		

UTILITIES

TELEPHONE POLE		(plot point at face not center of symbol)
POWER POLE		
JOINT OCCUPANCY		
MISCELLANEOUS/UNKNOWN POLE		
GUY POLE OR PUSH BRACE		
LIGHT POLE		
LIGHT ON POWER POLE		
LIGHT ON JOINT POLE		
RAILROAD		
RAILROAD SIGN		
RAILROAD SIGNAL		
UTILITY JUNCTION BOX		
OVERHEAD ELECTRIC		
UNDERGROUND UTILITIES		
WATER (on existing lines label size, type and note if abandoned)		
SEWER		
TELEPHONE		
ELECTRIC		
GAS		
LIGHTING		
INTELLIGENT TRANSPORTATION SYSTEM		
FIBER OPTIC		
WATER SHUT OFF		
GAS SHUT OFF		
HYDRANT		
MANHOLES		
SEWER		
TELEPHONE		
ELECTRICAL		
GAS		
UNKNOWN		

TRAFFIC SIGNALS / ITS

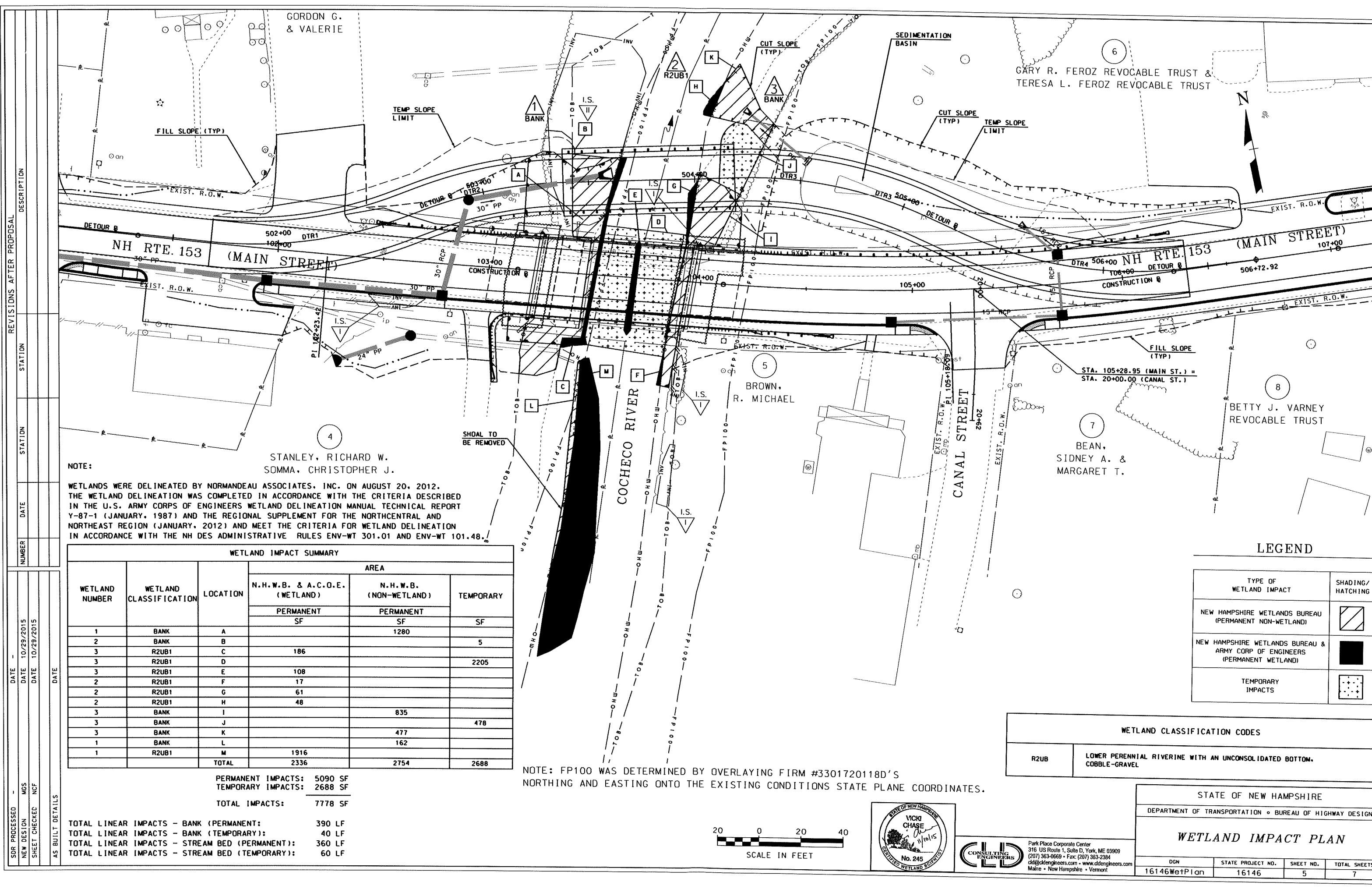
MAST ARM (existing)			(NOTE ANGLE FROM R)
OPTICOM RECEIVER			
OPTICOM STROBE			
TRAFFIC SIGNAL			
PEDESTAL WITH PEDESTRIAN SIGNAL HEADS AND PUSH BUTTON UNIT			
SIGNAL CONDUIT			
CONTROLLER CABINET			
METER PEDESTAL			
PULL BOX			
LOOP DETECTOR (QUADRUPOLE)			(label size)
LOOP DETECTOR (RECTANGULAR)			(label size)
CAMERA POLE (CCTV)			
FIBER OPTIC DELINEATOR			
FIBER OPTIC SPLICE VAULT			
ITS EQUIPMENT CABINET			
VARIABLE SPEED LIMIT SIGN			
DYNAMIC MESSAGE SIGN			
ROAD AND WEATHER INFO SYSTEM			

CONSTRUCTION NOTES

CURB MARK NUMBER - BITUMINOUS	B-1
CURB MARK NUMBER - GRANITE	G-1
CLEARING AND GRUBBING AREA	
DRAINAGE NOTE	
EROSION CONTROL NOTE	
FENCING NOTE	
GUARDRAIL NOTE	
ITS NOTE	
LIGHTING NOTE	
TRAFFIC SIGNAL NOTE	

SHEET 2 OF 2

STATE OF NEW HAMPSHIRE				
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN				
STANDARD SYMBOLS				
E	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
4	16146WSYMCLD	16146	3	7



NOTE:
WETLANDS WERE DELINEATED BY NORMANDEAU ASSOCIATES, INC. ON AUGUST 20, 2012. THE WETLAND DELINEATION WAS COMPLETED IN ACCORDANCE WITH THE CRITERIA DESCRIBED IN THE U.S. ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL TECHNICAL REPORT Y-87-1 (JANUARY, 1987) AND THE REGIONAL SUPPLEMENT FOR THE NORTHCENTRAL AND NORTHEAST REGION (JANUARY, 2012) AND MEET THE CRITERIA FOR WETLAND DELINEATION IN ACCORDANCE WITH THE NH DES ADMINISTRATIVE RULES ENV-WT 301.01 AND ENV-WT 101.48.

WETLAND IMPACT SUMMARY					
WETLAND NUMBER	WETLAND CLASSIFICATION	LOCATION	AREA		
			N.H.W.B. & A.C.O.E. (WETLAND)	N.H.W.B. (NON-WETLAND)	TEMPORARY
			PERMANENT SF	PERMANENT SF	
1	BANK	A		1280	5
2	BANK	B			
3	R2UB1	C	186		
3	R2UB1	D			2205
3	R2UB1	E	108		
2	R2UB1	F	17		
2	R2UB1	G	61		
2	R2UB1	H	48		
3	BANK	I		835	
3	BANK	J			478
3	BANK	K		477	
1	BANK	L		162	
1	R2UB1	M	1916		
TOTAL			2336	2754	2688

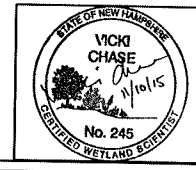
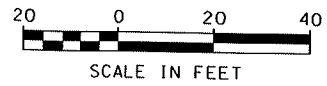
PERMANENT IMPACTS: 5090 SF
TEMPORARY IMPACTS: 2688 SF
TOTAL IMPACTS: 7778 SF

TOTAL LINEAR IMPACTS - BANK (PERMANENT): 390 LF
TOTAL LINEAR IMPACTS - BANK (TEMPORARY): 40 LF
TOTAL LINEAR IMPACTS - STREAM BED (PERMANENT): 360 LF
TOTAL LINEAR IMPACTS - STREAM BED (TEMPORARY): 60 LF

NOTE: FP100 WAS DETERMINED BY OVERLAYING FIRM #3301720118D'S NORTHING AND EASTING ONTO THE EXISTING CONDITIONS STATE PLANE COORDINATES.

LEGEND	
TYPE OF WETLAND IMPACT	SHADING/HATCHING
NEW HAMPSHIRE WETLANDS BUREAU (PERMANENT NON-WETLAND)	
NEW HAMPSHIRE WETLANDS BUREAU & ARMY CORP OF ENGINEERS (PERMANENT WETLAND)	
TEMPORARY IMPACTS	

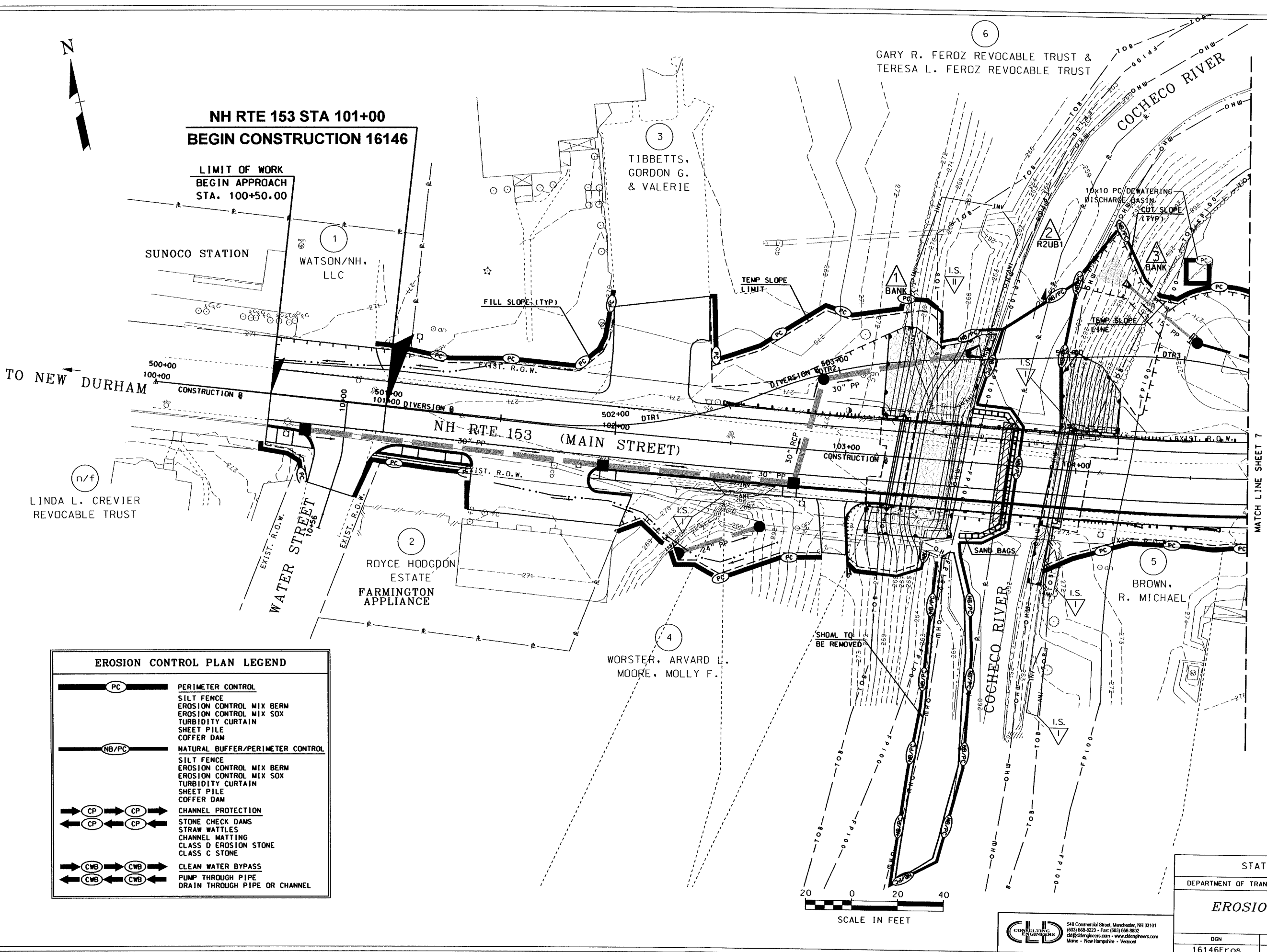
WETLAND CLASSIFICATION CODES	
R2UB	LOWER PERENNIAL RIVERINE WITH AN UNCONSOLIDATED BOTTOM, COBBLE-GRAVEL



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STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN			
WETLAND IMPACT PLAN			
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
16146WetPlan	16146	5	7

SDR PROCESSED		DATE		DATE		DATE		DATE	
NEW DESIGN	MGS	1/21/2016		1/21/2016		1/21/2016		1/21/2016	
		SHEET CHECKED		NCF					
		AS BUILT DETAILS							



EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN			
EROSION CONTROL PLAN			
OGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
16146Eros	16146	6	7

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